

Due: _____ Name: _____

UNIT 4 STUDY GUIDE

Directions: Complete your work on a separate sheet of paper (pages _____ and _____ of your notebook)

LESSON 1: GREATEST COMMON FACTOR AND LOWEST COMMON MULTIPLE

1. Find the greatest common factor of 56 and 44
2. Find the lowest common multiple of 4 and 6
3. Sara has 16 red flowers and 24 yellow flowers. She wants to make bouquets with the same number of each color flower in each bouquet. What is the greatest number of bouquets she can make?
4. Two neon signs are turned on at the same time. Both signs blink as they are turned on. One sign blinks every 9 seconds. The other sign blinks every 15 seconds. In how many seconds will they blink together again?
5. Andrew runs every four days and cycles every five days. He did both activities today, March 3. On what date will he next do both activities?

LESSON 2: EXPONENTS AND SQUARE ROOTS

Exponent	Word Form	Expanded Form	Standard Form
4			
	eight squared		
		$2 \times 2 \times 2 \times 2$	

LESSON 3: ORDER OF OPERATIONS

9. $[230 - 2(5 + 4)^2] + 7 \cdot 2^3$

10. $15 \cdot (2^4 - 12)^2 + \sqrt{144}$

11. $5 \cdot [4^3 \div (2^5 - 4^2)]^2$

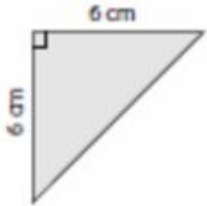
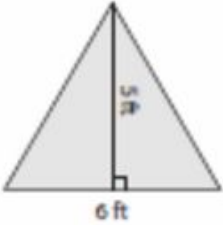
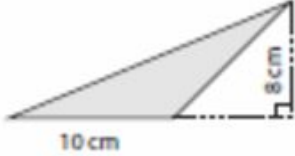
LESSON 4: EVALUATING EXPRESSIONS

12. $\frac{x^2 - (xy + 8) + 2}{xy^2}$ for $x = 6$ and $y = 3$

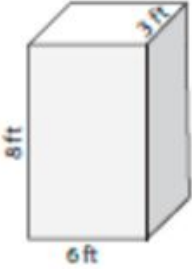
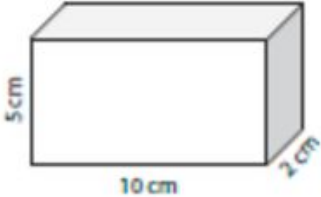
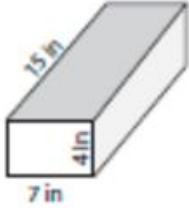
13. $(5x - 6)^2$ for $x = 4$

LESSON 5: USING FORMULAS

Area of a Triangle: Calculate the area of the following triangles:

		
Area = <input type="text"/>	Area = <input type="text"/>	Area = <input type="text"/>

Volume of a Rectangular Prism: Calculate the volume of the following rectangular prisms:

	2) 	3) 
Volume = _____	Volume = _____	Volume = _____